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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/710,295	06/30/2004	Deborra J. Zukowski	F-870	4294

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SHELTON, CT 06484-3000

EXAMINER

TRAN, TUYETLIEN T

ART UNIT	PAPER NUMBER
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2179

NOTIFICATION DATE	DELIVERY MODE
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12/04/2009

ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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Office Action Summary	Application No. 10/710,295	Applicant(s) ZUKOWSKI ET AL.	
	Examiner TUYETLIEN T. TRAN	Art Unit 2179	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 06 October 2009.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-6, 13-23, 25 and 26 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-6, 13-23, 25-26 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

Art Unit: 2179

DETAILED ACTION

1. This action is responsive to the following communication: Amendment filed on 10/06/2009. **This action is made final.**
2. Claims 1-6, 13-23, 25-26 are pending in this case. Claims 1 and 15 are independent claims.

Claim Rejections - 35 USC § 112

Applicant's amendment corrects the previous rejection; therefore, the previous rejection is withdrawn.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

4. **Claims 1-6, 13-22, 25-26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gossweiler III et al (Patent No. US 7089288 B2; hereinafter Gossweiler) in view of Thorman et al. (Pub. No. US 2005/0131959 A1; hereinafter Thorman).**

As to claim 1, Gossweiller teaches:

Art Unit: 2179

A method for processing a physical token in a responsive environment having a processor to provide an association with a virtual document (e.g., see Fig. 1) comprising:

attaching a physical sensor to the physical token, wherein the physical sensor is associated with the physical token (e.g., see 2:9-20, 4:61-67 to 5:1-9; wherein a small inductive coin with an antenna is attached to the tag; the tag cover is associated with the inductive coin and antenna);

sensing the presence of the physical token in an instrumented association bin (e.g., see Fig. 1 and 2:21-38, 5:47-57; communication between tag and tag reader occurs only when both are proximate; wherein the computer system having a plurality of card readers is interpreted as an instrumented association bin; note the card reader is affixed to a computational device included in the computer system);

Gossweiller further teaches associating a document with physical token in response to sensing the presence of the physical token in the instrumented association bin (e.g., see 2:39-55, 5:47-67, 6:14-36 and 6:60-67; wherein the user can be prompted to enter associated parameters via a dialog box or can navigate to the desired location);

Gossweiller further teaches obtaining user selection data identifying the virtual document to register with the physical token (e.g., see 2:39-55, 5:47-67, 6:14-36 and 6:60-67; where a text document can be associated with the identification number of the electronic tag);

Gossweiller teaches creating a sensor model instance associating the physical sensor with the physical token, the user and the virtual document using the processor (e.g., see 2:56-67 to 3:1-47, 6:14-36; 6:60-67; wherein each action is parameterized by a list of (name, value) pairs appropriate for that action, where the action can be linked to particular user, see 3:25-35);

While Gossweiller teaches the ability for the user to identify the virtual document to register with the token (e.g., see 6:14-36 and 6:60-67; wherein the user can easily add new tags

Art Unit: 2179

and new types of actions; wherein one of the actions can be displaying a text document), Gossweiller does not teach launching a document browser application and obtaining user selection data from the document browser application to register with the token.

Thorman teaches a file browser that allows the user to identify files or documents for further manipulating (e.g., Figs. 4-5 and [0032]; wherein a file browser allow a user to easily identify files and directories). Accordingly, it would have been obvious to one of ordinary skill in the art, at the time the invention was made, to modify the feature of allowing the user to identify a document to register with the token taught in Gossweiller to include the file browser feature as taught in Thorman to allow the user to select a document to register using a launching document browser. As suggested by Thorman, one would have been motivated to make such a combination is to make easier for the user to identify files or documents for further manipulating; thus, reduce the amount of time it takes the user to identify a document (e.g., see Thorman [0032]).

As to claim 15, Gossweiller teaches:

A method for processing a physical token in a responsive environment having a processor to provide an association with a virtual document (e.g., see Fig. 1) comprising:

placing a physical sensor having a sensor identifier in proximity to the physical token, wherein the physical token is associated with the physical token (e.g., see 2:9-20, 4:61-67 to 5:1-9; wherein a small inductive coin with an antenna is attached to the tag; the tag cover is associated with the inductive coin and antenna; and wherein the coin or transponder includes an ID number);

placing the physical token in an instrumented association bin (e.g., see Fig. 1 and 2:21-38, 5:47-57; communication between tag and tag reader occurs only when both are proximate; wherein the computer system having a plurality of card readers is interpreted as an

Art Unit: 2179

instrumented association bin; note the card reader is affixed to a computational device), wherein the instrumented association bin is configured to read the physical sensor (e.g., see 2:21-38, 5:47-57; wherein the tag reader included in the computer system can read the tag's information);

obtaining sensor identifier data from the instrumented association bin (e.g., 2:21-38; wherein the tag reader receives the identification number and passes this on to the computer system as an ASCII string);

Gossweiller further teaches obtaining user selection data identifying the virtual document to register with the token (e.g., see 2:39-55, 5:47-67, 6:14-36 and 6:60-67; where a text document can be associated with the identification number of the electronic tag);

Gossweiller teaches creating a sensor model instance associating the physical sensor with the physical token, the user and the virtual document using the processor (e.g., see 2:56-67 to 3:1-47, 6:14-36; 6:60-67; wherein each action is parameterized by a list of (name, value) pairs appropriate for that action, where the action can be linked to particular user, see 3:25-35);

While Gossweiller teaches the ability for the user to identify the virtual document to register with the token (e.g., see 6:14-36 and 6:60-67; wherein the user can easily add new tags and new types of actions; wherein one of the actions can be displaying a text document), Gossweiller does not teach launching a document browser application and obtaining user selection data from the document browser application to register with the token. However, it would have been obvious to one of ordinary skill in the art, at the time the invention was made, to have made this combination for the same reasons as set forth in the rejection of claim 1.

As to claims 2 and 16, Gossweiller further teaches setting a sensor name property (e.g., see 5:47-57, 6:14-36).

Art Unit: 2179

As to claims 3 and 17, Gossweiller further teaches setting the sensor name property using an identifier associated with the document (e.g., see 5:58-67 to 6:1-13, 6:60-67).

As to claims 4 and 18, Gossweiller further teaches setting a sensor type property to indicate a physical sensor (e.g., see 6:60-67 to 7:1-13).

As to claims 5 and 19, Gossweiller further teaches setting a sensor class property to indicate touch detection (e.g., see 6:60-67 to 7:1-13).

As to claims 6 and 20, Gossweiller further teaches the physical sensor is attached to the physical token (e.g., see 2:9-20, 4:61-67).

As to claims 13 and 21, Gossweiller further teaches wherein the physical token comprises a card (e.g., see 2:9-20; the tag) and sensing the presence of the physical token in an instrumented association bin comprises placing the card and the physical sensor in the instrumented association bin (e.g., see Fig. 1 and 2:21-38, 5:47-57; communication between the electronic tag and tag reader occurs only when both are proximate; the card reader is affixed to a computational device in a computer system. The electronic tag comprises a card and coin unit with antenna).

As to claims 14 and 22, Gossweiller further teaches before placing the card and the physical sensor in the instrumented association bin, attaching the physical sensor to the card (e.g., see 2:9-20, 4:61-67 to 5:1-9; wherein a small inductive coin with an antenna is attached to the tag; the tag cover is associated with the inductive coin and antenna; and wherein the coin or transponder includes an ID number).

Art Unit: 2179

As to claims 25 and 26, Gossweiller further teaches a plurality of physical tokens, wherein each of the plurality of physical tokens is each associated with one of a plurality of virtual documents (e.g., see 6:14-36).

5. Claims 23 is rejected under 35 U.S.C. 103(a) as being unpatentable over Gossweiler in view of Thorman further in view of Want et al. (published article, “Bridging Physical and Virtual Worlds with Electronic Tags”; CHI’ 99; pages 370-377; hereinafter Want).

As to claim 23, Gossweiller and Thorman teach the limitations of claim 15 for the same reasons as set forth above. Gossweiller further teaches wherein the sensor identifier comprises an first tag and the instrumented association bin comprises a tag reader, further comprising reading the sensor identifier data from the first tag using the tag reader (e.g., see 1:55-67 to 2:1-55; 5:47-57). Gossweiller and Thorman do not teach RFID tag and RFID reader.

In the same field of endeavor of physical and virtual worlds using electronic tags, Want teaches RFID tag and RFID reader (e.g., see pages 371, 372). Accordingly, it would have been obvious to one of ordinary skill in the art, at the time the invention was made, to have modified the electronic tag and tag reader as taught by Gossweiller and Thorman to include the feature of the RFID tag and RFID reader of Want to achieve the claimed invention. As suggested by Want, one would have been motivated to make such a combination is because RFID tags has no on-board power, thereby reducing the size and weight of the individual tags and eliminating maintenance requirements (e.g., see Want page 371, right column, “SYSTEM OVERVIEW”).

Response to Arguments

6. Applicant's arguments filed on 10/06/09 have been carefully considered but are not persuasive.

Art Unit: 2179

a) Applicant remarks with regard to claims 1 and 15 that the cited prior art of Gossweiller and Thorman do not teach or suggest "physical sensor associated with the user and a physical token" (e.g., see Applicant's remark page 7, paragraph 2).

In response, the examiner respectfully disagrees and directs the applicant to the exact claim language "creating a sensor model instance associating the physical sensor with the physical token, the user and the virtual document using the processor" (e.g., see lines 11-12 of claim 1). In this case, Gossweiller discloses using an electronic identification tag to associate with virtual document such that the user can command to open a document (e.g., see 2:9-55, 6:14-36). Gossweiller discloses that the electronic identification tag comprises a card and a sensor (e.g., see 2:9-20, 4:61-67 to 5:1-9; wherein a small inductive coin with an antenna is attached to the tag). Therefore, Gossweiller clearly teaches the association between a physical sensor (e.g., inductive coin with an antenna) and a physical token (e.g., the tag cover or a card). This reads on the applicant's specification of a physical token (e.g., see paragraph [0046]; where the instant specification defines the physical token is a plastic card).

Gossweiller further teaches a tag identification can be associated with semantic command (e.g., see 7:28-35) wherein the semantic command comprises the ones that can associated with a user (e.g., see 3:25-47, 6:14-36; open my computer desktop as I saved it a week ago). Gossweiller teaches the tag identification can be used to establish authorization such as logging on to a computer network or to open one's computer desktop (e.g., see 3:18-35 and 6:60-67). Gossweiller teaches the semantic command can further comprises the ones associating with a virtual documents such as open and print a particular electronic document (e.g., see 3:3-10 and 6:60-65). The skilled artisan in the art would appreciate that in order to open a document, one needs to be logged into the system to launch that document, in this case, the user can associate the tag's identification number with user's identification and document

Art Unit: 2179

name to login the computer and open a specified document. Therefore, Gossweiller teaches “creating a sensor model instance associating the physical sensor with the physical token, the user and the virtual document using the processor”.

b) Applicant further argues that the cited portion of the Gossweiller reference requires a separate tag to identify the user wherein it states “reading a first tag embedded in a picture identification card to establish user identification, immediately presenting a second tag...”; therefore, concludes that Gossweiller does not teach a physical sensor associated with the user and a physical token (e.g., see remark’s page 7, second paragraph).

In response, the examiner notes the cited portion of the Gossweiller reference refers to the capability of executing complex instructions sequences and information from one or more electronic tags to a reader connected to a computer (e.g., see 3:11-14). The specific example where complex instructions sequences requires more than one tags is just one example and it does not exclude the capability of executing the complex instructions sequences and information using just one tag.

c) Applicant remarks with regard to claims 1 and 15 that the cited prior art of Gossweiller and Thorman do not teach or suggest “a physical sensor associated with the particular token and virtual document so that it can report physical interaction such as touch applied to the token, but merely describe id tags and physical items” and “instrumented association bin” (e.g., see Applicant’s remark page 7, paragraph 3).

In response, the examiner respectfully disagrees. Gossweiller teaches a command such as open or print a particular electronic document can be associated with a physical ID tag (e.g., col. 6 lines 14-36, lines 60-67). Gossweiller teaches the command associated with the ID tag can be identified using positional information, applied pressure, force utilized in squeezing a

Art Unit: 2179

pressure sensor (e.g., col. 7 lines 1-13). Therefore, Gossweiller teaches the feature of associating a physical sensor with a particular token and virtual document. Gossweiller further teaches the feature of an instrumented association bin where the instrumented association bin is interpreted as a space where the tag reader can detect the tag having antenna attached to the tag (e.g., col. 2 lines 21-38 and col. 5 lines 47-57; wherein the tag reader can write as well as read electronic tag identification numbers and data).

d) Applicant remarks with regard to claims 1 and 15 that the cited prior art of Gossweiller and Thorman do not teach or suggest “an instrumental association bin” (e.g., see Applicant’s remark page 7, paragraph 3).

In response, the examiner respectfully disagrees. As set forth in the rejection of claims 1 and 15, Gossweiller discloses a computer system 12 comprising a plurality of card readers affixed to each computer device (e.g., see Fig. 1 and 2:21-38, 5:47-57), where the instrumented association bin is interpreted as a space where the tag reader can detect the tag having antenna attached to the tag, which reads on the claim limitation of an instrumented association bin because physical token (e.g., the electronic identification tag) can be sensed when it is near a computer device having a tag reader (e.g., see Fig. 1 and 2:21-38). Therefore, Gossweiller teaches an instrumented association bin.

For at least these reasons, the claims remain rejected over the cited prior art as rejected supra.

Conclusion

THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

Art Unit: 2179

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

It is noted that any citation to specific, pages, columns, lines, or figures in the prior art references and any interpretation of the references should not be considered to be limiting in any way. A reference is relevant for all it contains and may be relied upon for all that it would have reasonably suggested to one having ordinary skill in the art. In re Heck, 699 F.2d 1331, 1332-33, 216 USPQ 1038, 1039 (Fed. Cir. 1983) (quoting In re Lemelson, 397 F.2d 1006, 1009, 158 USPQ 275, 277 (CCPA 1968)).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to TuyetLien (Lien) T. Tran whose telephone number is 571-270-1033. The examiner can normally be reached on Mon-Friday: 7:30 - 5:00 (every other Friday off).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Weilun Lo can be reached on 571-272-4847. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2179

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/T. T. T./

Examiner, Art Unit 2179

/Weilun Lo/

Supervisory Patent Examiner, Art Unit 2179